International application No.

PCT/AU2004/001652

A.	CLASSIFICATION OF SUBJECT MATTER				
Int. Cl. 7:	A61M 16/00				
According to	International Patent Classification (IPC) or to both 1	national classification and IPC	•		
В.	FIELDS SEARCHED				
Minimum docu	mentation searched (classification system followed by cla	ssification symbols)			
Documentation	searched other than minimum documentation to the exte	nt that such documents are included in the fields search	ned		
	base consulted during the international search (name of ceywords: apnea and control and mode and feed				
C.	DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate approximation of document, with indication, where approximation are approximated as a second control of the contro	opriate, of the relevant passages	Relevant to claim No.		
Х	US 5458137 A (AXE et al.) 17 October 1995 Column 4 lines 48 to 65		1,10,12, 13,22,24		
x	US 5937853 A (STRÖM) 17 August 1999 Column 4 line 54 to column 5 line 9		25,37,49,56		
Α	US 5823187 A (ESTES et al.) 20 October 1998 Column 24 line 60 to column 25 line 17				
A .	US 2003/0121519 A1 (ESTES et al.) 3 July 2 Whole document	2003			
X F	urther documents are listed in the continuation	of Box C X See patent family anne	×		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory					
	international filing date or cannot be considered to involve an inventive step when the document is taken				
or which	document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other				
"O" docume	another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "&" document member of the same patent family				
"P" document published prior to the international filing date but later than the priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report					
22 February 2005 2 8 FEB 2005					
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Authorized officer DAVID MELHUISH Telephone No : (02) 6283 2426					

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C (Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α.	US 2003/0062044 A1 (BERTHON-JONES et al.) 3 April 2003 Whole document	
A	EP 788805 A2 (DeVILBISS HEALTH CARE, INC.) 13 August 1997 Whole document	
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
·
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
Box 140. III Observations where unity of invention is facking (Continuation of Item 5 of hist sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
See additional sheet.
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this international search report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
·
Remark on Protest The additional search fees were accompanied by the applicant's protest.
inc additional scatch locs were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

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Supp	lem	ental	Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1 to 36 and 49 to 55 are directed to treating sleep disordered breathing using an inner control loop to provide treatment and an outer control loop to monitor the effectiveness of the treatment. It is considered that the use of inner and outer control loops comprises a first "special technical feature".
- 2. Claims 37 to 48 and 56 to 62 are directed to treating sleep disordered breathing using one of at least two treatment modes, and changing between the modes if necessary. It is considered that the use of two treatment modes comprises a "second special technical" feature.

Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pater	nt Family Member		
US	5458137	ΑÜ	21892/92	AU	66296/94	CA	2111324
		CA	2159336	EP	0592492	EP	0699085
		US	5203343	US	6085747	wo	9222244
		wo	9423780				
US	5937853	EP	0774269	JР	9168595		
US	5823187	AU	14276/99	ΑÜ	29268/92	AU	30678/95
		AU	30679/95	AU	38508/93	AU	39130/95
		AU	62221/90	AU	98118/98 -	CA	2024477
		ĊĀ	2122590	CA	2162981	EP	0425092
		EP	0610405	EP	0714670	EP	1004325
	•	EP	1270036	JР	3222963	JР	8257016
		US	5148802	US	5239995	. US	5313937
		US	5433193	US	5492113	US	5551418
		US	5632269	US	5803065	US	5901704
		·US	5904141	US	5970975	US	6029664
		US	6305374	US	6427689	US	6539940
	•	US	6629527	US	2002023645	US	2003145856
	•	US	2004016433	wo	9308857		
US	2003121519	AU	30801/99	CA	2323455	· EP	1061981
		US	5535738	US	5794615	US	6105575
		US	6609517	wo	9945989	wo	2004047621
US	2003062044	AU	12185/99	AU	91392/98	EP	1028769
		EP	1502618	NZ	504595	US	6367474
		US	6502572	US	6817361	wo	9924099
EP	0788805	NONE					•

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX